CLAIMS

1. A connecting system (18) for connecting a stent (10) to a radiopaque marker characterised in that the connecting system (18) includes at least one gripping connection (18) comprising a gripping element (20, 20.1, 20.2, 20.3) and a clamping element (22, 22.1, 22.2, 22.3).

2. A connecting system as set forth in claim 1 characterised in that the marker itself is in the form of a gripping or clamping element (20, 20.1, 20.2, 20.3, 22, 22.1, 22.2, 22.3) of the gripping connection (18).

3. A connecting system as set forth in claim 1 or claim 2 characterised in that the marker is formed from a biocompatible material.

4. A connecting system as set forth in claim 3 characterised in that the marker entirely or in parts comprises one or more metals from the group Ta, Nb, Zr, Hf, Mo, W, Au, Pt, Ir, rare earths or alloys thereof.

5. A connecting system as set forth in claim 4 characterised in that the marker entirely or in parts comprises PtIr.

6. A connecting system as set forth in claim 1 characterised in that the gripping or clamping element (20, 20.1, 20.2, 20.3, 22, 22.1, 22.2, 22.3) of the gripping connection (18) is formed on a basic structure (15) of the stent (10).

7. A connecting system as set forth in claim 6 characterised in that the connecting system (18) is integrated into the basic structure (15) in such a way that it does not project or projects at most to a slight extent in a radial direction beyond the dimensions of a peripheral wall (13) of the basic structure (15).

8. A connecting system as set forth in claim 6 or claim 7 characterised in that the gripping or clamping element (22) is arranged at the proximal end of the stent (10).

9. A connecting system as set forth in claim 6 characterised in that the gripping or clamping element (20, 20.1, 20.2, 20.3, 22, 22.1, 22.2, 22.3) is formed from a biodegradable material.

10. A connecting system as set forth in one or more of the preceding claims characterised in that the stent (10) is self-expanding.

11. A connecting system as set forth in one or more of the preceding claims characterised in that the stent (10) is biodegradable.

12. A connecting system as set forth in claim 11 characterised in that the stent (10) is formed entirely or in parts from a biodegradable Mg-alloy.

13. A process for the production of a connection between a stent (10) and two or more radiopaque markers by means of a connecting system (18) as set forth in one or more of claims 1 through 12 characterised in that

(a) two or more markers are connected together by way of a positioning element (40) so that the markers are aligned with their gripping or clamping elements (20, 20.1, 20.2, 20.3, 22, 22.1, 22.2, 22.3) with the corresponding gripping or clamping elements (20, 20.1, 20.2, 20.3, 22, 22.1, 22.2, 22.3) of the stent (10),

(b) in a working step the markers are placed with their gripping or clamping elements (20, 20.1, 20.2, 20.3, 22, 22.1, 22.2, 22.3) on to the corresponding gripping or clamping elements (20, 20.1, 20.2, 20.3, 22, 22.1, 22.2, 22.3) of the stent (10), and

(c) then the connection between the positioning element (40) and the gripping or clamping elements (20, 20.1, 20.2, 20.3, 22, 22.1, 22.2, 22.3) of the marker is separated.

The invention concerns a connecting system for connecting a stent to a radiopaque marker. The intention is to provide a connecting system which allows the stent to be connected to a radiopaque marker without a worsening of the mechanical properties of the stent and which at the lowest possible level of structural complication and expenditure provides a holding force which is adequate for probing with and implantation of the stent. That is achieved in that the connecting system includes at least one gripping connection comprising a gripping element and a clamping element.